

WE CLAIM:

1. A programmable object model for accessing the resources of an Extensible Markup Language (XML) schema library, comprising:
  - an application programming interface for allowing a user to
  - 5 programmatically access resources identified in an XML schema library;
  - the application programming interface comprising a message call for requesting association of an XML schema file to an XML markup applied to a document; and
  - the application programming interface operative to receive a return value
  - 10 from the XML schema library responsive to association of the XML schema file to the XML markup applied to the document.
2. The method of Claim 1, whereby the application programming interface further comprises a message call for requesting removal of an association of the XML
- 15 schema file to the XML markup applied to the document; and
- whereby the application programming interface is further operative to receive a return value from the XML schema library responsive to removal of the association of the XML schema file to the XML markup applied to the document.
3. A programmable object model for accessing the resources of an
- 20 Extensible Markup Language (XML) schema library, comprising:
  - an application programming interface for allowing a user to
  - programmatically access resources identified in an XML schema library;
  - the application programming interface comprising a message call for requesting association of an XSLT transformation to an XML markup applied to a
  - 25 document; and
  - the application programming interface operative to receive a return value from the XML schema library responsive to association of the XSLT transformation to the XML markup applied to the document.

4. The method of Claim 3, whereby the application programming interface further comprises a message call for requesting removal of an association of the XSLT transformation to the XML markup applied to the document; and

5 whereby the application programming interface is further operative to receive a return value from the XML schema library responsive to removal of the association of the XSLT transformation to the XML markup applied to the document.

5. A programmable object model for accessing the resources of an Extensible Markup Language (XML) schema library, comprising:

10 an application programming interface for allowing a user to programmatically access resources identified in an XML schema library;

the application programming interface comprising a message call for requesting association of an one or more XML-based resources to an XML markup applied to a document; and

15 the application programming interface operative to receive a return value from the XML schema library responsive to association of the one or more XML-based resources to the XML markup applied to the document.

6. The method of Claim 5, whereby the application programming interface further comprises a message call for requesting removal of an association of the one or more XML-based resources to the XML markup applied to the document; and

whereby the application programming interface is further operative to receive a return value from the XML schema library responsive to removal of the association of the one or more XML-based resources to the XML markup applied to the document.

25 7. A programmable object model for accessing the resources of an Extensible Markup Language (XML) schema library, comprising:

calling the XML schema library via an object-oriented message call;

passing an object property to the XML schema library, the object property being associated with a software object associated with functionality identified in the XML schema library; and

in response to the message call and the object property passed to the  
5 XML schema library, receiving access to the functionality identified in the XML schema library associated with the object property passed to the XML schema library.

8. The method of Claim 7, whereby passing an object property to the XML schema library includes passing a method property for creating a new XML Namespace  
10 and for adding the new XML Namespace to a collection of XML Namespaces, where a path to a schema file associated with the new XML Namespace and a uniform resource identifier for the new XML Namespace are passed to the XML schema library as parameters of the method object.

15 9. The method of Claim 7, whereby passing an object property to the XML schema library includes passing a method property for installing solution manifests for registering XML Namespaces in the XML schema library.

10. The method of Claim 7, whereby passing an object property to the XML  
20 schema library includes passing a method property for accessing individual XML resources from a collection of XML resources using a numerical index or search key word, where a numerical index associated with an individual XML resource is passed as a parameter with the method property.

25 11. The method of Claim 7, whereby passing the object property to the XML schema library includes passing an object property for controlling an alias name associated with a specified Namespace identified in the XML schema library.

12. The method of Claim 7, whereby passing the object property to the XML  
30 schema library includes passing a method property for attaching a specified XML

schema file of a specified XML Namespace to a specified document, whereby a pointer to the specified document is passed to the XML schema library as a parameter of the method property.

5           13.     The method of Claim 7, whereby passing the object property to the XML schema library includes passing an object property that points to a default XSLT transformation associated with a specified Namespace.

10           14.     The method of Claim 7, whereby passing an object property to the XML schema library includes passing a method property for removing an XML Namespace object from a collection of Namespace objects.

15           15.     The method of Claim 7, whereby passing an object property to the XML schema library includes passing a method property for creating a new XSLT transformation and for adding the new XSLT transformation to a collection of XSLT transformations, where a pointer to the new XSLT transformation is passed to the XML schema library as a parameter to the method property.

20           16.     The method of Claim 7, further comprising a method property for accessing individual XSLT transformations contained in a collection of XSLT transformations using a numerical index or search key word, where a numerical index representing the position of a requested XSLT transformation in the XML schema library is passed as a parameter to the XML schema library with the method property.

25           17.     The method of Claim 7, whereby passing an object property to the XML schema library includes passing an object property for controlling an alias name associated with an XSLT transformation identified in the XML schema library.

18. The method of Claim 7, whereby passing the object property to the XML schema library includes passing a method property for removing an XSLT transformation from a collection of XSLT transformations.